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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Ihlenfeldt et al.

Application No.: 10/025,826

Group No.: Unknown

Filed: 12/19/2001

Examiner: Unknown

For: STABILIZED AQUEOUS NUCLEOSIDE TRIPHOSPHATE SOLUTIONS

Assistant Commissioner for Patents
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Sir:

Please enter the following amendments prior to examination of the above-referenced application:

IN THE CLAIMS:

Please cancel claims 1 to 14, without prejudice, in the originally filed application.

Please add the new claims 15-26 as shown on the attached pages.

Respectfully submitted,

Date: February 12, 2002

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15. An aqueous solution comprising one or more nucleoside triphosphates, wherein the pH value of said solution is above 7.5 and wherein said solution is free of stabilizing substances and a PCR function test is positive after about 90 days at a temperature of 35°C.
16. The solution of claim 15, wherein said nucleoside triphosphates are modified nucleoside triphosphates.
17. The solution of claim 15, wherein said pH value is above 7.5 and below or equal to 11.
18. The solution of claim 15, wherein the solution has a concentration of said nucleoside triphosphates of between about 2 to 200 mmol/l.
19. The solution of claim 15, wherein said nucleoside triphosphates are deoxynucleoside triphosphates.
20. The solution of claim 15, wherein said solution contains a substance which buffers above pH 7.5.
21. In a method for replicating nucleic acid fragments via a reaction in the presence of an enzyme with reverse transcriptase activity, said method comprising the addition of nucleoside triphosphates to said reaction, the improvement comprising the addition of a solution according to claim 15.
22. In a method for synthesizing nucleic acid sequences via a cycle sequencing reaction, said method comprising the addition of nucleoside triphosphates to said reaction, the improvement comprising the addition of a solution according to claim 15.
23. In a method for random priming of nucleic acid sequences in a reaction, said method comprising the addition of nucleoside triphosphates to said reaction, the improvement comprising the addition of a solution according to claim 15.
24. In a method for nick translation of nucleic acid sequences in a reaction, said method comprising the addition of nucleoside triphosphates to said reaction, the improvement

comprising the addition of a solution according to claim 15.

25. In a method for synthesizing nucleic acid sequences via a polymerase chain reaction, said method comprising the addition of nucleoside triphosphates to said reaction, the improvement comprising the use of a solution containing one or more nucleoside triphosphates, wherein the pH value of said solution is above 7.5 and wherein said solution is free of stabilizing substances and a PCR function test is positive after about 90 days at a temperature of 35°C.

26. An aqueous solution comprising one or more dideoxynucleotide triphosphates, wherein the pH value of said solution is above 7.5 and wherein said solution is free of stabilizing substances and a PCR function test is positive after about 90 days at a temperature of 35°C.